Department of Chemistry & Physics

CHEMISTRY 1040: GENERAL CHEMISTRY II

CHEM 1040. GENERAL CHEMISTRY. (3-3-0). Continuation of 1030. Chemical equilibrium, chemistry of metals and some of their compounds; nuclear chemistry. Prerequisite: credit for 1030 and registration in or credit for 1031. (May not receive credit for both Chemistry 1030 and Science 2010).

Textbook: Chemistry: The Central Science. Vol. 2
Custom Edition for CHEM 1040 w/Mastering Chemistry
Pearson 11th edition by Brown

Topics:

Thermochemistry	Chap. 5
Chemical Thermodynamics	Chap. 19
Chemical Equilibrium	Chap. 15
Properties of Solutions	Chap. 13
Acid-Base Equilibria	Chap. 16
Additional Aspects of Equilibria	Chap. 17
Electrochemistry	Chap. 20
Chemical Kinetics	Chap. 14
Nuclear Chemistry	Chap. 21
Representative Applications	Chap. 22

Course Goals:

This course is intended:

1. To introduce the student to basic concepts and factual information relating to chemistry.
2. To prepare the student for further studies in chemistry.
3. To provide the necessary information so that the student can begin to think in terms of structure.
4. To develop mathematical abilities of the student particularly as applied to solving word problems.
5. To develop the synthetic abilities of the students particularly as applied to problem solving.

Course Objectives:

The student who successfully completes this course should be able:

1. To provide appropriate names, formulas and structures for atoms, ions and molecules.
2. To predict simple chemical and physical behavior.
3. To use general chemical concepts to explain chemical behavior.
4. To solve chemical problems including stoichiometric.
5. To demonstrate a qualitative awareness of concepts for which advanced mathematic reasoning is required.

Note: It is the policy of NSU to accommodate students with disabilities, pursuant to federal law, state law, and the University's commitment to equal educational opportunities. Any student with a disability who needs accommodations, for example in seating placement or in arrangements for examinations, should inform the instructor at the beginning of the course. Students with disabilities are encouraged to contact Disability Services, which is located in Kyser Hall, Room 237, telephone 357-6950 or (TTD) 357-4393 or disability@nsula.edu.